



## Appendix 1 - Stream Temperature Data

### Upper Cispus River Watershed Lower

Stream Temperatures Stream Name	Monitoring location	Maximum temp. in 2003 (°C)	Maximum 7-day average temp. in 2003 (°C)	Years monitored	Years Maximum 7-day average temp exceeded 16.0°C (#)	Highest Maximum 7-day average temp. (°C) during monitoring period (Year)
Walupt Creek	At inlet to Walupt Lake	*	*	2002	0	10.0 (2002)
Walupt Creek	At outlet to Walupt Lake	23.1	22.7	2001-2003	3	22.7 (2003)
Walupt Creek	At confluence w/Cispus R	*	*	2001-2002	2	20.5 (2001)
Cispus River	At Walupt Ck Confluence	*	*	2002	0	13.3 (2002)
Cispus River	Above Muddy Fork confluence	14.1	13.7	2000,2003	0	13.7 (2003)
Chambers Creek	About 1.3 miles above confluence w/ Cispus River	15.1	14.4	1994,1995, 2003	1	16.0 (1994)
East Canyon Creek	About 5 miles above confluence w/ Cispus River	15.5	14.9	1994, 2003	1	16.1 (1994)
East Canyon Creek	About 1 mile from Cispus R. confluence	17.1	16.8	1994-97 1999-2003	5	17.9 (1994)
North Fork Cispus River	Near confluence w/ Cispus R	16.7	16.2	1991-95 1997-2003	1	16.2 (2003)
Cispus River	Above North Fork Cispus confluence	16.2	15.6	1994,2000, 2003	0	15.8 (2000)
Cispus River	At river mile 23	14.6	14.0	2003	0	14.0 (2003)



## Cispus River Watershed Stream Temperatures

Stream Temperatures Stream Name	Monitoring location	Maximum temp. in 2003 (°C)	Maximum 7-day average temp. in 2003 (°C)	Years monitored	Years Maximum 7-day average exceeded 16.0°C (#)	Highest Maximum 7-day average temp. (°C) (Year)
Yellowjacket Creek	2.5 miles above Pinto Creek	*	*	1992, 1994, 1995, 1997	0	13.7 (1992)
Pumice Creek	At confluence w/Yellowjacket Creek	15.7	15.2	2001-2003	1	16.2 (2001)
Pinto Creek	At confluence w/Yellowjacket Creek	15.5	14.9	2001-2003	0	15.2 (2001)
Yellowjacket Creek	Above McCoy Creek	16.4	15.9	2001, 2003	0	15.9 (2003)
Yellowjacket Creek	At confluence w/ Cispus R	19.3	18.7	1996, 1999-2003	5	18.8 (2001)
Cispus River	Just above Greenhorn Cr Confluence	19.3	18.4	2000, 2003	2	18.4 (2003)
1918 Creek	Greenhorn Cr confluence	19.9	18.9	2001-2003	3	19.0 (2001)
Greenhorn Creek	Above 1918 Creek	17.6	16.8	2001, 2003	1	16.8 (2003)
Greenhorn Creek	At confluence w/ Cispus R	20.2	19.6	2000-2003	4	19.6 (2003)
Iron Creek	Above Big Creek	*	*	1999, 2001	0	13.2 (2001)
Iron Creek	At river mile 0.9	17.0	16.5	2001, 2003	1	16.5 (2003)
Iron Creek	At confluence w/ Cispus R	19.0	18.4	1996, 1999-2003	5	18.4 (2003)
Cispus River	4.5 miles above Quartz Creek confluence	17.5	18.3	1991-1992 1996-2003	8	19.1 (1996)
Quartz Creek	About 1 mile from Cispus	17.6	16.8	2000-2003	1	16.8 (2003)



Stream Temperatures	Stream Name	Monitoring location	Maximum temp. in 2003 (°C)	Maximum 7-day average temp. in 2003 (°C)	Years monitored	Years Maximum 7-day average exceeded 16.0°C (#)	Highest Maximum 7-day average temp. (°C) (Year)
	R. confluence						
Woods Creek	About 1 mile from Cispus R. confluence	<b>18.6</b>	<b>18.1</b>	<b>1999, 2003</b>	<b>1</b>	<b>18.1 (2003)</b>	
Woods Creek	About 3.6 miles from Cispus R confluence	16.3	15.7	2003	0	15.7 (2003)	
Woods Creek	About 3.7 miles from Cispus R confluence	<b>18.9</b>	<b>18.1</b>	<b>2003</b>	<b>1</b>	<b>18.1 (2003)</b>	

**Bold** denotes site exceeded temperature standard during 2003.



### Middle Cowlitz Watershed Stream Temperatures

Stream Name	Monitoring location	Maximum temp. in 2003 (°C)	Maximum 7-day average temp. in 2003 (°C)	Years monitored	Years Maximum 7-day average temp. exceeded 16.0°C (#)	Highest Maximum 7-day average temp. during monitoring period (°C (Year))
North Fork Willame Creek	At confluence w/ West Fork Willame Creek	15.3	14.9	1978, 1983-1987 1996, 1998-2003	0	15.9 (1996)
West Fork Willame Creek	At confluence w/ Willame Ck	*	*	1996,1998	0	13.8 (1996)
Lillian Creek	At confluence w/ Willame Ck	15.6	15.1	1998-2003	0	16.1 (1998)
South Fork Willame Creek	About 1 mile above Willame Creek	*	*	1975-1978 1980-1988 1994	0	14.2 (1994)
South Fork Willame Creek	At confluence w/ Willame Ck	*	*	1998, 2000-2002	0	15.6 (1998)
Willame Creek	About 2.5 miles above confluence w/ Cowlitz River	13.5	13.3	2003	0	13.3 (2003)
Willame Creek	0.5 mile above confluence w/ Cowlitz R	16.1	15.6	1999-2003	0	15.9 (2001)
Davis Creek	About 2 mile from Cowlitz R. confluence	16.5	16.0	2001, 2002-2003	0	16.0 (2003)
Silver Creek	About 2.5 miles above Lynx Ck	*	*	1995-1997	0	11.7 (1996)
Lynx Creek	Near confluence with Silver Ck	<b>18.8</b>	<b>18.3</b>	<b>1999, 2003</b>	<b>2</b>	<b>18.3 (2003)</b>
Silver Creek	Below Lake Creek confluence	16.5	16.0	1999, 2001, 2003	1	16.0 (2001,2003)



Stream Name	Monitoring location	Maximum temp. in 2003 (°C)	Maximum 7-day average temp. in 2003 (°C)	Years monitored	Years Maximum 7-day average temp. exceeded 16.0°C (#)	Highest Maximum 7-day average temp. during monitoring period (°C (Year))
Lake Creek	Near confluence with Silver Ck	17.5	16.9	1999, 2003	2	16.9 (2003)
Silver Creek	About 1 mile from Cowlitz R. confluence	17.5	16.9	1992, 1995, 1997-2003	9	18.3 (1998)
Siler Creek	About 2.5 miles from Cowlitz R.	*	*	1996, 2002	0	15.3 (1996)

#### Upper Nisqually River Watershed Stream Temperatures

Stream Name	Monitoring location	Maximum temp. in 2003 (°C)	Maximum 7-day average temp. in 2003 (°C)	Years monitored	Years Maximum 7-day average temp. exceeded 16.0°C (#)	Highest Maximum 7-day average temp. during monitoring period (°C (Year))
Big Creek (Nisqually R trib)	3.5 miles above Catt Ck confluence	*	*	1997, 2002	0	14.6 (2002)
Berry Creek (Nisqually R trib)	At confl. w/ Nisqually R	15.8	15.2	1997, 2003	2	15.2 (2003)
Copper Creek	0.2 miles from Nisqually R	12.6	12.2	1997, 2003	0	12.6 (1997)



Stream Name	Monitoring location	Maximum temp. in 2003 (°C)	Maximum 7-day average temp. in 2003 (°C)	Years monitored	Years Maximum 7-day average temp. exceeded 16.0°C (#)	Highest Maximum 7-day average temp. during monitoring period (°C (Year))
	confluence					
Catt Creek (Big Ck trib)	3 miles above Big Ck confl.	17.8	17.1	1996, 1999, 2001-03	4	17.1 (2003)
Catt Creek (Big Ck trib)	6 miles above Big Ck confl.	12.9	12.4	2000, 2003	0	12.5 (2000)
South Catt Creek	About river mile 0.3	15.5	14.8	2000, 2003	2	14.8 (2003)
East Creek (Nisqually R trib)	4.5 miles above Nisqually R. confluence	19.7	19.0	2002-2003	2	19.0 (2003)
Lake Creek	At confluence w/ W.F.Little Nisqually R	*	*	2002	1	13.9 (2002)
West Fork Little Nisqually River	At confluence w/ Lake Ck	*	*	2002	1	17.7 (2002)
Winston Creek	At confluence w/ W.F.Little Nisqually R	13.3	12.9	2003	1	13.5 (2002)



<b>Stream Name</b>	<b>Monitoring location</b>	<b>Maximum temp. in 2003 (°C)</b>	<b>Maximum 7-day average temp. in 2003 (°C)</b>	<b>Years monitored</b>	<b>Years Maximum 7-day average temp. exceeded 16.0°C (#)</b>	<b>Highest Maximum 7-day average temp. during monitoring period (°C (Year))</b>
West Fork Little Nisqually River	At confl. w/ Winston Ck	18.6	17.9	2002-2003	2	18.1 (2002)
West Fork Little Nisqually River	Above confl. w/ Hiawatha Ck	16.7	16.1	2003	1	16.1 (2003)
Hiawatha Creek	At confl. w/ Little Nisqually R	16.8	16.0	2001-2003	3	16.0 (2003)
Spencer Creek	At confluence w/ Little Nisqually R	13.8	13.3	2002-2003	2	13.5 (2002)
Little Nisqually River	At confluence w/ Wildcat Ck	17.9	17.3	2002-2003	2	17.3 (2003)
Wildcat Creek	At confluence w/ Little Nisqually R	14.9	14.5	2002-2003	2	14.7 (2002)



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### Upper Lewis River Watershed Stream Temperatures

Stream Name	Monitoring location	Maximum temp. in 2003 (°C)	Maximum 7-day average temp. in 2003 (°C)	Years monitored	Years Maximum 7-day average exceeded 16.0°C (#)	Highest Maximum 7-day ave. during monitoring period (°C (Year))
Lewis River	Above Quartz Creek	15.4	14.8	1999-2003	0	15.4 (2001)
Quartz Creek	Above Platinum Creek	18.5	17.9	2000-2003	3	17.9 (2003)
Quartz Creek	Below Platinum Creek	18.7	18.0	1997-2003	5	18.0 (2003)
Alec Creek	Above Lewis River	15.1	14.5	2000, 2003	0	14.5 (2003)
Lewis River	Above Cussed Hollow Ck	*	*	1996-1997	1	17.0 (1996)
Lewis River	Below Cussed Hollow Ck	18.9	18.1	1998-1999 2002-2003	2	18.1 (2003)
Lewis River	Above Big Creek	18.5	17.8	2001-2003	3	18.5 (2001)
Rush Creek	Above Meadows Creek	11.7	11.1	1996, 1999-2000, 2003	0	14.7 (1996)
Lewis River	Below Rush Creek	*	*	1997	1	18.8 (1997)
Lewis River	Above Curly Creek	17.3	16.6	1997-2000 2002, 2003	5	19.3 (1998)



### Muddy River and Swift Reservoir Watershed Stream Temperatures

Stream Name	Monitoring location	Maximum temp. in 2003 (°C)	Maximum 7-day average temp. in 2003 (°C)	Years monitored	Years maximum 7-day average exceeded 16.0°C (#)	Highest Maximum 7-day ave. during monitoring period (°C (Year))
Clearwater Creek	8 miles above Muddy River	18.2	17.8	1996-1999 2001-2003	5	18.2 (1998)
Muddy River	Above Clear Creek confluence	21.0	20.0	1996-2003	8	21.9 (1996)
Clear Creek	Near confl. w/ Muddy River	18.2	17.9	1997-2003	7	18.0 (1998)
Muddy River	Below Clear Creek confluence	21.8	20.8	2001-2003	3	21.1 (2001)
Pine Creek	0.5 Mi. above Lewis River	15.0	14.7	2002, 2003	0	14.7 (2003)

### East Fork Lewis River Watershed Stream Temperatures

Stream Name	Monitoring location	Maximum temp. in 2003 (°C)	Maximum 7-day average temp. in 2003 (°C)	Years monitored	Years Maximum 7-day average temp. exceeded 16.0°C (#)	Highest Maximum 7-day ave. during monitoring period (°C (Year))
East Fork Lewis River	Above Green Fork	18.1	17.3	1999-2003	4	17.3 (2003)
Green Fork	1 mile above East Fork	15.0	14.4	1996-1999 2001-2003	0	15.5 (1998)
East Fork Lewis River	Just Below Green Fork	*	*	2001-2002	0	15.9 (2002)
East Fork Lewis River	Below Little Creek	17.4	16.4	1999-2001 2003	2	17.2 (2000)
East Fork Lewis River	Below McKinley Creek	*	*	1996-1998	3	17.2 (1998)



Stream Name	Monitoring location	Maximum temp. in 2003 (°C)	Maximum 7-day average temp. in 2003 (°C)	Years monitored	Years Maximum 7-day average temp. exceeded 16.0°C (#)	Highest Maximum 7-day ave. during monitoring period (°C (Year))
East Fork Lewis River	Just Above Slide Creek	*	*	2001-2002	1	16.7 (2001)
Slide Creek	¼ Miles above East Fork	*	*	2001-2002	0	15.8 (2001)
East Fork Lewis River*	Below Slide Creek	*	*	2001-2002	2	17.6 (2001)
<b>East Fork Lewis River</b>	<b>Below Sunset Falls Campground</b>	<b>19.7</b>	<b>18.8</b>	<b>2001-2003</b>	<b>2</b>	<b>18.8 (2003)</b>
Copper Creek	Above Bolin Creek	*	*	1996-2002	4	17.2 (2002)
East Fork Lewis River	Above Nicolls Creek	<b>20.7</b>	<b>19.8</b>	<b>1997, 1999-2003</b>	<b>6</b>	<b>19.8 (2003)</b>

#### **Yale Reservoir and Merwin Lake Watersheds Stream Temperatures**

Stream Name	Monitoring location	Maximum temp. in 2003 (°C)	Maximum 7-day average temp. in 2003 (°C)	Years monitored	Years Maximum 7-day average temp. exceeded 16.0°C (#)	Highest Maximum 7-day ave. during monitoring period (°C (Year))
Siouxon Creek	Below West Creek	18.8	18.2	1996-2000 2003	5	18.2 (1997,2003)
Canyon Creek	Above Jake's Creek	*	*	2001-2002	0	12.4 (2001)
Canyon Creek	Above Big Rock Creek	16.5	15.9	1997-1998 2001-2003	0	15.9 (2003)



## Wind River Watershed Stream Temperatures

Stream Name	Monitoring location	Maximum temp. in 2003 (°C)	Maximum 7-day average temp. in 2003 (°C)	Years monitored	Years Maximum 7-day average exceeded 16.0°C (#)	Highest Maximum 7-day ave. during monitoring period (°C (Year))
Wind River Headwaters	Above Pete's Gulch	*		1998-2002	0	16.0 (2002)
Pete's Gulch	Above confl. w/ Wind River	*		1999-2002	0	15.3 (2001)
Wind River	Below Paradise Creek	*		1999-2002	3	16.8 (2001,2002)
Wind River	Above Falls Creek	*		1993 1999-2002	4	16.8 (2001)
Falls Creek	Above confl. w/ Wind River	15.1	14.3	1998-2003	1	16.2 (2001)
Trapper Creek	River mile 1.8	15.8	15.4	1995-1997 1999-2003	0	15.4 (2003)
Wind River Baseline	Below Trapper Creek	<b>19.1</b>	<b>18.5</b>	<b>1995-2000 2002-2003</b>	<b>4</b>	<b>18.5 (2003)</b>
Wind River	Above Trout Creek	18.7	18.4	<b>2003</b>	<b>1</b>	<b>18.4 (2003)</b>
Trout Creek	Above Crater Creek	8.0	8.0	2003	0	8.0 (2003)
Crater Creek	Above Trout Creek	<b>19.2</b>	<b>18.6</b>	<b>2003</b>	<b>1</b>	<b>18.6 (2003)</b>
Compass Creek	River mile 2.1	16.5	15.9	2002-03	0	15.9 (2003)
Compass Creek	Above Trout Creek	15.6	15.3	2003	0	15.3 (2003)
Trout Creek (East Fork)	Above Trout Creek	<b>20.2</b>	<b>18.8</b>	<b>2003</b>	<b>1</b>	<b>18.8 (2003)</b>
Layout Creek	River mile 2.0	15.6	15.2	2003	0	15.2 (2003)
Layout Creek	Above Trout Creek	<b>22.9</b>	<b>22.4</b>	<b>2003</b>	<b>1</b>	<b>22.4 (2003)</b>
Trout Creek	Below Layout Creek	<b>18.4</b>	<b>17.9</b>	<b>2003</b>	<b>1</b>	<b>17.9 (2003)</b>
Trout Creek	Below Planting Creek	<b>21.0</b>	<b>20.3</b>	<b>2003</b>	<b>1</b>	<b>20.3 (2003)</b>
Trout Creek Baseline	Above Hemlock Lake	<b>20.6</b>	<b>19.8</b>	<b>1995-2000 2002-03</b>	<b>8</b>	<b>22.1 (1998)</b>
Trout Creek	Below Hemlock Lake	<b>24.8</b>	<b>23.8</b>	<b>2002-03</b>	<b>2</b>	<b>23.8 (2003)</b>
Trout Creek	Above Martha	<b>23.7</b>	<b>23.0</b>	<b>2002-03</b>	<b>2</b>	<b>23.0 (2003)</b>



Stream Name	Monitoring location	Maximum temp. in 2003 (°C)	Maximum 7-day average temp. in 2003 (°C)	Years monitored	Years Maximum 7-day average exceeded 16.0°C (#)	Highest Maximum 7-day ave. during monitoring period (°C (Year))
	Creek					
Wind River	Below Trout Creek	<b>18.3</b>	<b>17.5</b>	2002-03	1	17.5 (2003)
Panther Creek Baseline	River mile 6.5	12.4	12.0	1996-2003	0	12.3 (2001)
Bear Creek Baseline	River mile 2.8	15.3	15.0	1977-2003	1	17.1 (1998)

#### Tilton River Watershed Stream Temperatures

Stream Name	Monitoring location	Maximum temp. in 2003 (°C)	Maximum 7-day average temp. in 2003 (°C)	Years monitored	Years Maximum 7-day average temp. exceeded 16.0°C (#)	Highest Maximum 7-day average temp. during monitoring period (°C (Year))
Tumble Creek	Near confluence of Wallanding Creek	16.4	16.1	1995, 1996, 1999-2003	3	16.3 (1995)

**Bold** denotes site exceeded temperature standard during 2003.

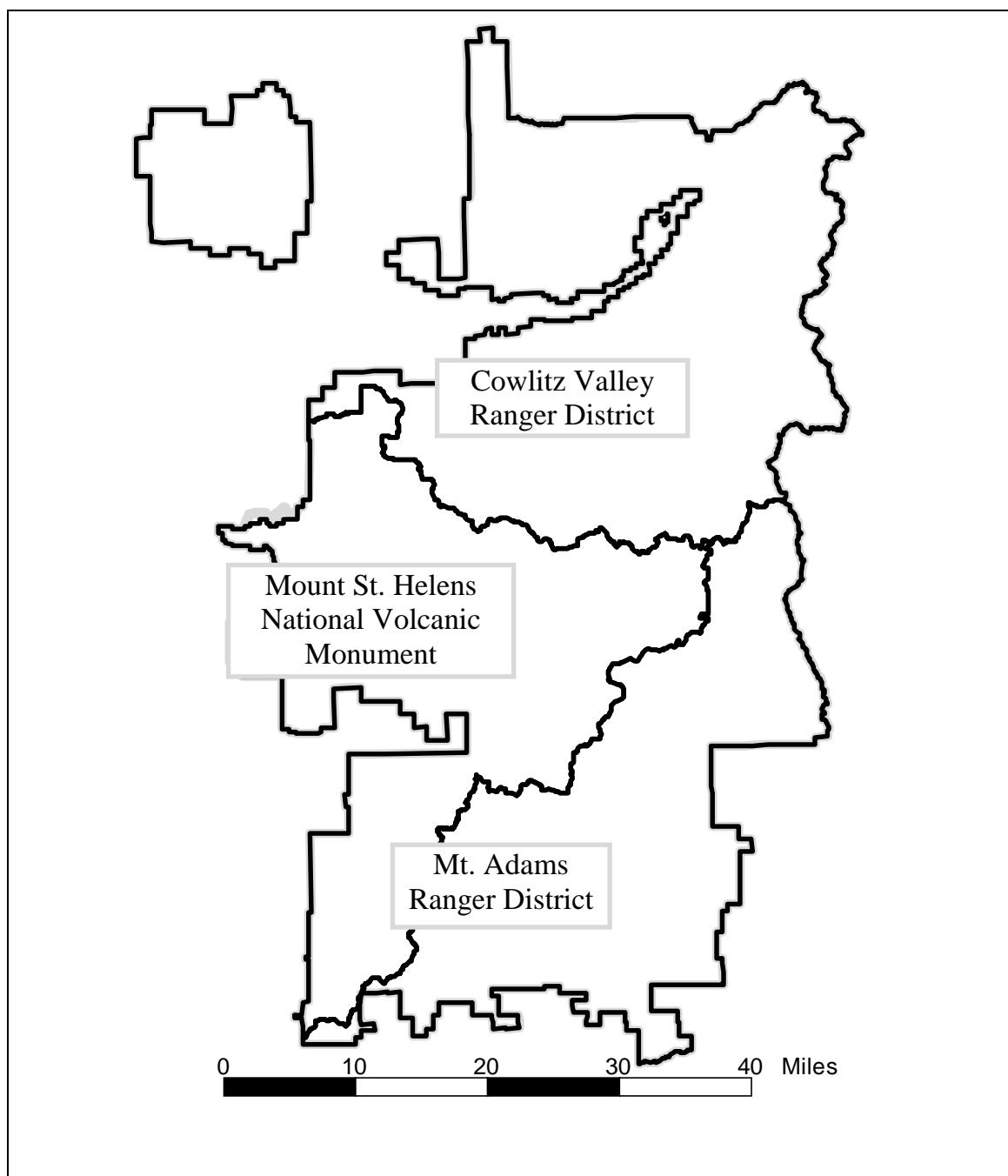


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**Preparers**

Name	Discipline
Aldo Aguilar	Soils
Bob Obedzinski	Vegetation Management
Carol Chandler	Wildlife/Botany/Range
Dave Porter	Recreation
John Roland	Monitoring Coordinator
Joseph Esteves	Grazing
LaDonna Smith	Editing
Rick McClure	Heritage Resources
Robin DeJong	Transportation
Ruth Gittins	Financial Management
Ruth Tracy	Hydrology
Jim Chamberlin	Mining

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